

# MATERIAL SAFETY DATA SHEET

Bromine Index Number Titration Solvent

## SECTION 1 . Product and Company Identification

Product Name and Synonym: Bromine Index Number Titration Solvent

Product Code: 1365

Material Uses:

Manufacturer: Science Stuff  
1104 Newport Ave  
Austin, TX 78753  
(512) 837-6020

Entry Date : 6/11/2013

Print Date: 6/11/2013

24 Hour Emergency Assistance : Chemtrec 800-424-9300  
Canutec 613-996-6666

Health:	2
Flammability:	2
Reactivity:	0

Hazard Rating:  
Least Slight Moderate High Extreme  
0 1 2 3 4

NA=Not Applicable NE=Not Established

## SECTION 2 HAZARD IDENTIFICATION

Causes severe irritation and burns. May Be harmful if swallowed. Avoid breathing vapor or dust. Use with adequate ventilation. Avoid contact with eyes, skin, and clothes. Wash thoroughly after handling. Keep container closed.

## SECTION 3 MIXTURE COMPONENTS

SARA 313	Component	CAS Number	Percent Comp.	Dimension	Exposure Limits
<input checked="" type="checkbox"/>	1-Methyl-2-Pyrrolidone (N-Methyl Pyrrolidone)	CAS# 872-50-4	13.4%	V/V	None Established
<input type="checkbox"/>	Acetic Acid, Glacial	CAS# 64-19-7	71.4%	V/V	10 ppm OSHA TWA, 15 ppm OSHA STEL
<input checked="" type="checkbox"/>	Methanol (Methyl Alcohol)	CAS# 67-56-1	13.4%	V/V	OSHA TWA 200 ppm, ACGIH STEL 250 ppm
<input type="checkbox"/>	Sulfuric Acid 1 + 5		1.8%	V/V	

## SECTION 4 FIRST AID MEASURES

Causes severe irritation and burns. May Be harmful if swallowed. Avoid breathing vapor or dust. Use with adequate ventilation. Avoid contact with eyes, skin, and clothes. Wash thoroughly after handling. Keep container closed.

FIRST AID: SKIN: Wash exposed area with soap and water. If irritation persists, seek medical attention.

EYES: Wash eyes with plenty of water for at least 15 minutes, lifting lids occasionally. Seek Medical Aid. INHALATION: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen

INGESTION: Give several glasses of milk or water. Vomiting may occur

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spontaneously, but DO NOT INDUCE! Never give anything by mouth to an unconscious person.

### SECTION 5 FIRE FIGHTING MEASURES

Fire Extinguisher Type: Carbon Dioxide, dry chemical powder or appropriate foam

Fire / Explosion Hazards: Vapor may travel considerable distance to source of ignition and flash back.

Fire Fighting Procedure: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and clothing.

### SECTION 6 ACCIDENTAL RELEASE MEASURES

Absorb spill with inert material, then place in a chemical waste container. Dispose of in a manner consistent with federal, local law.

### SECTION 7 HANDLING AND STORAGE

Store in a cool, dry, well-ventilated place away from incompatible materials. Wash thoroughly after handling.

### SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Respiratory Protection: NIOSH/MSHA-approved respirator

Ventilation

Local Exhaust

Mechanical

Protective Gloves: NIOSH Approved Gloves

Eye Protection: Goggles and Face Shield

Other Protective Equipment: Wear appropriate clothing to prevent skin exposure

### SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Melting Point:	Not available	Percent Volatile by Volume:	>98%
Boiling Point:	Not available	Evaporation Rate	Not available
Vapor Pressure:	Not available	Evaporation Standard	
Vapor Density:	Not available	Auto Ignition Temp	Not available
Solubility in Water:	Soluble	Lower Flamm. Limit in Air	Not available
Appearance /Odors:	Clear liquid, vinegar odor	Upper Flamm. Limit in Air	Not available
Flash Point:	Not		
Specific Gravity:	Not available		

### SECTION 10 STABILITY AND REACTIVITY INFORMATION

Stability: Stable

Conditions to Avoid: Avoid contact with heat, sparks, flames, or incompatible substances.

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Materials to Avoid: Oxidizing agents, metals, bases, amines.

Hazardous Decomposition Products: CO<sub>x</sub>, phosgene, chloride fumes

Hazardous polymerization: Will Not Occur

Conditions to Avoid: None known

**SECTION 11 Toxicological Information**

**SECTION 12 Ecological Information**

**SECTION 13 Disposal Considerations**

**SECTION 14 Transport Information**

DOT Classification: UN2920, Corrosive Liquid, Flammable, n.o.s.  
(Acetic Acid, Methanol), 8, (3), PG II

DOT Regulations may change from time to time. Please consult the most recent D.O.T. regulations.

**SECTION 15 Regulatory Information**

**SECTION 16 Additional Information**

Corrosive! Lachrymator! Harmful or fatal by inhalation, ingestion or skin contact. Conditions aggravated: Heart rhythm disorders, liver and kidney disease. Acute: Severe irritation or burns to skin, eyes, respiratory system, digestive tract. Central nervous system effects. Circulatory and respiratory effects. Chronic: Dermatitis, eye damage. Target organs: Liver, kidneys, sensitizes the heart to epinephrine. inhal:vapors can cause mental confusion.exposure can cause painful burning/stinging of eyes flush with large amounts of water.skin:wash affected area with mild soap and large amounts of water. Inhal: remove to fresh air perform artificial resp. if needed. In all cases seek medical attention. Target organs: Bone Marrow, Thymus, Spleen. Persons with pre-existing eye,skin or respiratory conditions may be more susceptible.

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Flammability

Health

Reactivity

Revisions

NFPA

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